

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau(43) International Publication Date  
22 July 2004 (22.07.2004)

PCT

(10) International Publication Number  
**WO 2004/060164 A1**(51) International Patent Classification<sup>7</sup>: **A61B 5/16**(21) International Application Number:  
PCT/AU2004/000008

(22) International Filing Date: 7 January 2004 (07.01.2004)

(25) Filing Language: English

(26) Publication Language: English

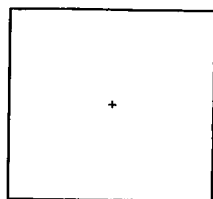
(30) Priority Data:  
2003900035 7 January 2003 (07.01.2003) AU(71) Applicant (for all designated States except US):  
**MONASH UNIVERSITY** [AU/AU]; Clayton Road,  
Clayton, Victoria 3168 (AU).

(72) Inventors; and

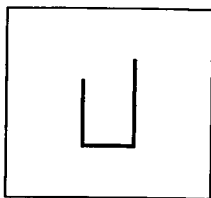
(75) Inventors/Applicants (for US only): **YELLAND,**  
Gregory [AU/AU]; 17 Corunna Court, Glen Waverley,Victoria 3150 (AU). **ROBINSON, Stephen** [AU/AU]; 28  
Penington Avenue, Glen Waverley, Victoria 3150 (AU).  
**FRIEDMAN, Timothy** [AU/AU]; 38 McKinnon Road,  
McKinnon, Victoria 3204 (AU). **HUTCHISON, Christo-**  
**pher** [AU/AU]; 9 Margarita Street, Hampton, Victoria  
3188 (AU).(74) Agent: **PHILLIPS ORMONDE & FITZPATRICK**; 367  
Collins Street, Melbourne, Victoria 3000 (AU).(81) Designated States (unless otherwise indicated, for every  
kind of national protection available): AE, AG, AL, AM,  
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,  
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,  
ZW.

[Continued on next page]

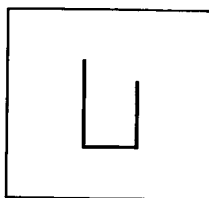
(54) Title: ASSESSMENT OF COGNITIVE IMPAIRMENT



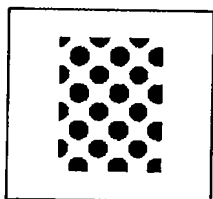
A



OR



B



C

(57) Abstract: A method of assessing cognitive impairment of a user includes presenting a visual test stimulus to the user for a pre-determined test stimulus exposure duration. The test stimulus is then masked and a response from the user is measured. The response provides information about the user's perception of a characteristic of the test stimulus together with the time taken for the user to respond. These steps are repeated to develop a user profile and cognitive impairment in the user is assessed by comparing the user profile with a reference profile. A method of assessing cognitive impairment of a user includes presenting a visual test stimulus to the user for a pre-determined test stimulus exposure duration. The test stimulus is then masked and a response from the user is measured. The response provides information about the user's perception of a characteristic of the test stimulus together with the time taken for the user to respond. These steps are repeated to develop a user profile and cognitive impairment in the user is assessed by comparing the user profile with a reference profile.



(84) **Designated States** (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

**Published:**

— *with international search report*